2002-185963/an

L1 ANSWER 1 OF 1 WPINDEX COPYRIGHT 2005 THE THOMSON CORP on STN

ACCESSION NUMBER: ***2002-185963*** [24] WPINDEX

TITLE: Fuel cell adopting multilayered ion conductive polymer

membrane.

DERWENT CLASS:

X16

INVENTOR (S):

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PATENT ASSIGNEE(S):

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COUNTRY COUNT:

PATENT INFORMATION:

PATENT NO		DATE	WEEK	LA	 MAIN	
KR 2001093359 KR 355392	Α	20011029 20021011	(200224)	*	HO1N	1008-10 1008-10

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
KR 2001093359	А	KR 2000-15876	20000328
KR 355392	В	KR 2000-15876	20000328

FILING DETAILS:

PATENT NO	KIND			PATENT NO
KB 355392	В	Previous Publ.	KR	2001093359

PRIORITY APPLN. INFO: KR 2000-15876 20000328

INT. PATENT CLASSIF.:

MAIN:

H01M008-10

BASIC ABSTRACT:

KR2001093359 A UPAB: 20020416

NOVELTY - A fuel cell which adopts a multilayered ion conductive polymer membrane is provided to inhibit water from moving from a cathode to an anode and to prevent the deterioration of the ion conductivity due to the increase of temperature, thereby improving the efficiency and performance of a fuel cell.

DETAILED DESCRIPTION - The fuel cell comprises a cathode, an anode and an ion conductive polymer membrane(21) placed between the two electrode, wherein the ion conductive polymer membrane(21) is provided with a first ion conductive polymer membrane(21A) which is formed in the part of the cathode and comprises an ion exchange polymer and a material with the good water absorption, and a second ion conductive polymer membrane(21B) which is formed in the part of the anode and comprises an ion exchange polymer and a metal catalyst. Preferably the first and second ion conductive polymer membranes are a multilayered structure. The concentration of the water-absorbing material of the first ion conductive polymer membrane, and the concentration of metal catalyst of the second ion conductive polymer membrane decrease from the polymer membrane to the interface between the two polymer membranes.

Dwg.1/10

FILE SEGMENT: EPI FIELD AVAILABILITY: AB; GI

MANUAL CODES: EPI: X16-C01